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     Liew, Choong-Chin

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<120> Method for the Detection of Gene Transcripts in Blood and Uses
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<151> 2000-01-04

<150> US 60/115,125
15 <151> 1999-01-06

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<170> PatentIn version 3.2

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cccacatttc catttttaat atatactgtg ctttacaaat attataatat gttttaaaat   180

40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaaa ataagcattc   240

tttgaatata tatttagttt tttaatgtgg taggaaaatc aaagccagag ggagtagaaa   300

caaaatttgt gattttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga   360
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ctttaaggnt tggggggaatt cccccaaaaa aggaaaaaat tttcccgggg gcccacccgg   120

15 aaaggggggaa ggcccccaaa accggggggg gggnaaaaag gtgggtttcc ccctttttcc   180

aattcccaaa accaatttcc aaaaggnaaa ccaaccnttc ccaaaatggg aaagg   235

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     gggggnccaa accggnaaag gntttgggaa aaccaaattt tttttggncc caaccccccc   120

45   caaattgggg ggnaaaccaa atttaaggggg ggaaggggg gnccccccg ggaaaggccc   180
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aaggggggaa aatttttccg ggggtgggtn gggggaacca atttaagggg ggggccccg   240

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15

ctgtacttga actctaaaac tgttggagaa actcagtgct tacccaaca gattcatttc   180

aaatagctgt aaaaggtatg tttactccag aagaccagag ttgcttcttt tgaacttctc   240

20   attccttggg cctaggaacc ctcatcaccc tcatcccaac gtcaacccag atcttctctt   300

ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttggatt   360

cacagacagg ctgtgctaga ggaaacctct ggggctcacc aggggccgtg ggatgggctt   420

25   ctggggcttc ttggagccca acttcttcat ggc   453

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cggcccgggc ccgggnagcc cttcccgggc ttttcccccg ggggggnccc gggggggacc   120

tttaggcggc accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg   180
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gttctgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa   240

tg   242

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    <212> DNA
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    tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggaggtt   120

15 gcagggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct   180

    c   181

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    tnccccnccn nttnanacna aanntngcac tcttggntgc                         100


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      ataatggaag atagctntga ggatnaacnc tggttnaggg                         100

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tttgnggctg cngcccctgt gcctggtgcc acaacaaatg   100

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cgggaaggcc nttggggaaa aaaccaangg ncaaaccccc ccaaccacnc ggcccccccc   120

15

aaggggggtg gggaagagcc aaatttctttt gggaaanaac gcccccttgg ggaaaaanaag   180

gccaaccacc tttcaacanc ccccaangcg nggaagccat ttcttgg   227

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ggaagaattg tatgtgggag tttttaatgg tctcatttca ttggctataa ctcagttaca   180

aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga   240

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agagacaaat tttgtcatca gctagtgatc tgccatacaa ggtgttccct taatatgtgt   300

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40 ttgaggcgaa aggactcgcg gatttgacgc ttgatgcggt tgcgctcgac ggcgagcttg   180

acgctctttt tgccgatcac caaacctagg cggggatgat caagctggtt atcgcgcgct   240

agcagcagga cacttttgcc cgggagcttt accgcttggg gagtcgaaga ctgccttgna   300
45

ttgccgggga gtcagcagtc gctttttccc ggncgaagcc tcgaactcac cancctgtct   360

166

ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga   420

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5

gccaaacccc cc   492

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    acgagccggg ctggagcggt gggaaaagca aatgtaggca taagtaacga caatgcgggc   120

45 gagaacccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta   180

167

gtcgggtact aaggcgttag cgaaggcgaa gcgccgatgt gaagggggtt aatattcctc   240

cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag   300

5   tgggcgccag caggggcggc cttcgggcca aaccgaacct caggtcanac ttccaagaaa   360

agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg   420

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aagaaggaac ccaccctngg ggccaaacaa aaacttaaaa accccccccat ttcntncccc   180
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attcggcacg agggattaca gtcgtgagcc actgcacctg gctgcaatt   109

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atttgtggtc ggaagctttg caaagagggg acctgggtct gagtgacatg cgtggccact   120

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agctaatttc tgctctgctc cttctgtgac atgtggcagc gtgggaaata gccactgtcc   240

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5   actagatttt actgtagatg gtagataaaa gtccagtgaa aagcaaagat gtgtaatgtt   180

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tgnaatacta ttgcctctta tatacacnac caannntgcg aagggcnann nnacctttnc   180

cantnnnctg gggncccacn nnngngaact gagagtggat cttgtgtacc tgacnnacca   240

gntntnnagn agggcgctca ctctgattgg tgcaccatgg ttacacagtg tgtgcaaaga   300

ccngnctatc tcactganga tgattgncag ngccnntggg tggcacnang ggnactgatg   360

ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnatat   420

aggttaccnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa   480

ntctntcnct ataggcatga ttttnnncag tgcgtcagcc ttganaanga ancnnacttt   540

tgntagatga nnngntgctc nccottgngg ctnacaaatt ccancaccnt tggtggcngc   600

agccnttaag ancacttntt ttgggttgcg ctnttggatg aattacnaat agnntgtttt   660

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<400> 54

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tagatatggg aagattatag gaggcgacaa ctaccgagcc tggtgatagc tggtgtccaa   180

gaagagtctt agttcattta tttggcccag aaccctctaa tccccttgta atttatgtca   240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg   300

gcctaatagc agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa   360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt   420

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ggatttgggg tttagaggta caattgcctt tttatggtta gagaaaggtc ctggggctgg   180

agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct   240

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<212> DNA
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aggagaattg cgtcatttaa agcctgttga cgcttttctc ccgcagacga atggaaagat   180

taattgggag tgggggctga aacaattcg   209

<210> 58
<211> 262
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221

caaatcaccg gcatggagat tgcgcctgtg gtcccaaaat actcgggctg ggacacgatg   180

agttgcttgg cccaaggaag gagggttgta tggctgatca cactggtccg cctgggtgac   240

5   agagcgagac tccatctcta at   262

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cccggggggag gggtatccgg tttataaacc ccaagggtat tttcttagca aaatacttaa   180

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tctgggatgg gaatatgagt ttttatacat ttcattttct ttttgggcaa aggcccggtt   300

aagtattccc ccccggggggg cctttacaaa aagggcggtt ttaaaagctt ttgggccccc   360
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tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca   180

tgattccgaa tcacccacag acagctcgat caccatacgt atcacccaac atatatacct   240

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aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt   180
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taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg   240

aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg   300

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atgaagttga ataataaaaa tatattctac actagcacaa attataaata aagcagtgat   420

ttaaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata   480
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aataatccac cagatacaag tttgcatcaa cttctgtgaa atattttttt tccttttttgt   180
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tgggcatttt tatggtctaa atatagaatg accaatgcct ctagaacaaa cttgacctgg   240

tcagtgttat caagaagcag actgtttctt actttctttg tatttccttta cttatttaaa   300

45   tttgttaaaa ttgatatatt gatatataaa acttctttg ccagtgttgg tggcacacgc   360

223

ctttaatccc agcacttagg aggcagaggc agggtggatt tctgaatttg agggcaggct   420

agtctacaga gcaagttcca ggtcagccaa ggctatatat agaaactctg gcatgaaaaa   480

ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac   540

caaaccagac taaaccaaac caaaccagac cagaccagac cagaccagac cagaccagac   600

cagaccaaac t   611

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gaacacatgc tgaagatcat ctaactcaat atggcgcata tttctatgtc ttgctgccca   180

ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag   240

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tatatttcaa atgtcttgct aacagtggtt actttgctct atccttagct atacgtctcg   180

aggcacattg ttcctctatg ccccgctacg ctttgcccta gagctcggcg gtatctatat   240

cttaactgcc ctcttgatcc ttacgtgccg gagaaggtgg aggcagaaat tttgtcaaat   300

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aggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa   180

tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa   240
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atagctagta aactcccccct gt   142
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attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc   180

ccacattttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc   240
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<210> 68
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tagaagtcat tatttttatta taaaacatgt ggattagata ttttcattta tgtgattaaa   120

ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaat   179

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ttttgaattc taaactgtct ctgggtgggt gtgggtgcca ccaagagcat gtgttcatgt   180

agggagactg gtttttttaca gttgtctatg agagagatga cagttgcctg gattatggtg   240

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gtgacattgg agataagcag gtagacagat tctcagtgta ttaggagaga aaaatcaata   300

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tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg   180

agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat   240

gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat   300

gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga   360

tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca   420

atgagatgaa atgatgagat gaaatgaaat agtgaaatga aattgaaata aaatcgaaat   480

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15 ngacgcgccg tacaggntna attatggnan cttacatggn aaaggggcan ctcaatgtcc   120

cacag   125

20 <210> 72
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atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg   120
35
aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga   180

cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa   240

40 tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa   300

ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga   360

catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga   420
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tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga   473

229

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aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaatgaa atgaaataat   120

gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa   180
30

tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga   240

gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga   300

35   tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga   360

aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat   420

aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg   480
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cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa   180
20

tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg   240

aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg   299

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taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga   120
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ctacttnaga ngaantcctc gcaaaatcct tgaatcaccg cttcagtgca gtgatatcac   120

cgccatgaaa tttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt   180
45
tatcggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact   240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga   300

aaatatgagg ggtggcaagg ttttgcctgt tacattctca aatggaagca aattagatat   360

gtcattg   367

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<223> n is a, c, g, or t

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atagaaatca ttatttctgt gggatggata attgggccaa attgtaaaat attttaacta   120

tcagtgtttg gggtttattt ttaaaagaat agggtgccac cagatgttct ttagtggagg   180

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aggtcctttc ttagtct   257

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nntaantaaa aagggtgaag aannttactt cncttggtcc taaaaaacnt tttcntcagt   120

30

tattaccaaa atatttggac cattantaaa gantagggcc aacccnaatt tttcttgaaa   180

tttccgttaa atagccgtta aatgttttta cccatttcat attggatacc ttaaattata   240

35

ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc ttttctcctc   300

taccattatt gtcactttat gtttggaacc ccctttaccc ttccttaaag gaaaaaaagg   360

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<210> 79
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45 <213> Human

235

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25   <223> n is a, c, g, or t

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30   <223> n is a, c, g, or t

<400> 79
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35   ccttgatgtt caagtattta agaccctatg cnaatatttt ttaccttttc taataaacca   120

tgtttgtt   128

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45
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ggccaggcct tcccttttaaa aaaaaatnac cgtttttttngg gggangnaac ctttaaaagg   120

ggaaaanaaa tcctttttaa anggaantcc aagggaagga ncctgnncaa nacttccccn   180
30
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35   <211> 443
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<223> n is a, c, g, or t

<400> 81

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tgatgaaatg agatgagatg agaagaaatg acttgatgag atgagataaa atgatgaaat   120

gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg   180

aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat   240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa   300

tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa   360

tgaaatgttg aaatgaaatg aagagatgta acatgaaatg agctgaaatg atgagatgaa   420

atgaaatgaa atgagattaa atg   443

<210> 82
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10 <223> n is a, c, g, or t

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<222> (82)..(83)
15 <223> n is a, c, g, or t

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20 <223> n is a, c, g, or t

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25 gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata   120

ntagggacct gctctataag cccatcataa tttattatga agttataaca agtaaaacag   180

taaggtattt ggcatggaat agagaaccca gaaacagacc caatgcatgg gtacaggata   240
30

taacacaggg aaatgaggga caatatatgg ttctgggata attatttata tggggaaaat   300

aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg   360

35 catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg   420

taggaaagca tttctttttt tt   442

40 <210> 83
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240

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<223> n is a, c, g, or t

10 <400> 83
gtctaacnta aaaagtaaag aaagtaaagt aaaggnttga aggaaggaag gaaggaagga   60

aggagggaaa agaaagaaag gaaggaagga aggaaaagaa agaaagaaag gaaggaagga   120

15 aggaaggaag gaagg   135

<210> 84
<211> 346
20 <212> DNA
<213> Human

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25 <221> misc_feature
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<223> n is a, c, g, or t

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gagttgcctt ctgtaagtgc ccctactatc aaggtttcat ggaaaatcta ggcaaggcag   120

aacttcctca gaaggacaag agacaaagaa gtggggggagg ccctcctatc catagctgag   180
35

agggtttatt ctttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc   240

aaccccagct agacagaact ttgtagattt tggggggttt aaaaggcctc aagcaaattc   300

40 taaaactttc tttgaacccc ctggcatagg ctcagtttcc ctgact   346

<210> 85
<211> 100
45 <212> DNA
<213> Human

<400> 85
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5   gaaaagaaaa tggtttttt tgccgaaatc aaccgggtaa   100

<210> 86
<211> 201
10   <212> DNA
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<400> 86
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gaaaagagga agaaacgctt tttaggagtt aaggattaaa gtaaaaatta ttttgacata   120

attacctctt tttgtgacca ctcttaaagg ccaggaacat atttggagaa gcctagttgt   180

20   atgtaacagt gtggggtttc a   201

<210> 87
<211> 531
25   <212> DNA
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<400> 87
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aacccagaac gaacgcgtta agtgcgcgtt atcttcctag gatagagtcg gtgacgggaa   120

tcttttaccc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg   180

35   ttaaccatcg caatcgccga ccgagtttaa ggaccactcc ccaccttct cattagttaa   240

ggagaacgct actttacccc atagacggag aaatcgctac tcaactacca ggcgcgcgcc   300

gtcgagtccc tcttcctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga   360
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ttcttctaag cgtagcgcgt ctactccaat gttttcgtta atccagcccg aactaacgcc   420

gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag   480

45   aaaacaaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a   531

242

<210> 88
<211> 530
<212> DNA
5   <213> Human

<400> 88
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10   cattcggtcc agtgcctcgc cctattagcc cttaagccca ccgtttctaa aactcccaga   120

acagccaaac cggtccgccc aaggcctccg tcgtttata atatattccg tttacgtata   180

aggaacgaac cccccttcat taccacggtc ccgcgtccgc ctccttctcc attcgcaaca   240
15

gttctattcc tttcagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa   300

gatagcaaag attacccagc ttctattcct cgccccagag ccgagtaaat cgaagtttat   360

20   agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa   420

tataaactta atgtcccctt tattctcccg gacgcccctt ttaaccactt cttcctatct   480

ttcgctaaca agccattgac ggcgctttgc cgcgcgggcc catctcgcgt   530
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<210> 89
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30   <213> Human

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30   <223> n is a, c, g, or t

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35   <223> n is a, c, g, or t

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40   ttccaccggc ctggttttgg tttttccata attaattaac caggggggncc anttaaaaaa   120

aattaaggna aggnttaaaa aatttaacca angggggggtt taaagggntt tttttttttta   180

aaaaaaaagg ttaaancccc ccctttttttt ttgggttggg gtgggaaaat tttgggaanc   240
45
cttaaccccc gggtttttgg gttttttttgg ccaaaacccc ccggaaaaaa attaaaaaaa   300

244

ggaccggttt ccattttaat gggtattggg aa   332

5   <210> 90
     <211> 185
     <212> DNA
     <213> Human

10   <400> 90
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     cggtggtaac tattaaaaca taagtttaat cggtatttaa aattttaaaa tcaaaaaaaa   120

15   taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt   180

     ctcct   185

20   <210> 91
     <211> 365
     <212> DNA
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     <223> n is a, c, g, or t
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     <223> n is a, c, g, or t
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40
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     ctagggggta cttgaaaatg ctagaccagg ataactccta agtgtatatc cttggcagac   120
45
     tcgttatgct ttccaatcct gcttgcaata taagacacaa agtcagaata aagctcaaga   180

aaacagaacg tgcaggccat caagcgcaga gcctgctcat tggacaaccg caaagagtag   240

taagtgctgc cgctattcac acttagaaaa ggagaaccac ggggaaaaac caaattaatg   300

gggctgcttt ttgtcactct ggcatnagag aattgtgnng aaantttaac ttttgtaagc   360

ttgta   365

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aagtcaggat agtagttttc attccttaga tggtacaagt gttgagacaa atg   113

<210> 93
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25   cccgggantt cggccccttat ggcccggggga aatgatgaga tgaaatgatg aaatgagata   60

agatgaaaag agttgatgag atgatgagat gaaatgagat gaaaagagat gaaatgagat   120

gaaatgaaat gatgagatga aatgaggtga aatgaaatta gatgaaacgt aatgagatga   180
30
aatgacctaa tgaaatgaaa aaatgaaatg aaataatgaa atgaggtgaa attaaatgag   240

atgatgaaat taaatgatga aatgaaataa tgaaatggaa atgaaatgga aatgatgaga   300

35   tgaatgatga gatgaaatga tgagatgaga tctaatgatg agaggagatg atgagatgaa   360

ntgagatgaa aagagatgaa atgagatgaa accgaaatga tgagatgaaa tgaggtgaaa   420

tgaaattaga tgaaacgtaa tgagatgaaa tgacataatg aaatgaaaaa atgaaatgaa   480
40
ataatgaaat gaggtgaaat   500

<210> 100
45   <211> 397
<212> DNA

<213> Human

<220>
5   <221> misc_feature
    <222> (8)..(8)
    <223> n is a, c, g, or t

    <220>
10 <221> misc_feature
    <222> (39)..(39)
    <223> n is a, c, g, or t

    <220>
15 <221> misc_feature
    <222> (50)..(50)
    <223> n is a, c, g, or t

    <220>
20 <221> misc_feature
    <222> (56)..(56)
    <223> n is a, c, g, or t

    <220>
25 <221> misc_feature
    <222> (71)..(72)
    <223> n is a, c, g, or t

    <220>
30 <221> misc_feature
    <222> (97)..(97)
    <223> n is a, c, g, or t

    <220>
35 <221> misc_feature
    <222> (110)..(110)
    <223> n is a, c, g, or t

    <220>
40 <221> misc_feature
    <222> (177)..(177)
    <223> n is a, c, g, or t

    <400> 100
45 cccgggangt ttaagttagg gggcctgccc ctttaagcnt agtcccaccn tgaaanacac   60

tccccttgaa nntctctaaa ccttaacttt ctggccnttt tgtttcagan atgcctaacc   120

ctcaggggggt cttttgttct ctacgcctaa aaacttaatc tgtttggaac aattccnttt   180

5   cctctctgta gaaattgacc tggccatggc tcctgtgaat gatacggttg ctattatccc   240

tgaacactgt aaaaatgaac tttgaaacag ttgggtagga cccaaacaga aaatgatgta   300

tggcttggaa atagtttagc tgaacattat gctttaatat tttactggcc attgcagcac   360
10
aggtttagaa atttatgttc ggcttttttaa agtttta   397

<210> 101
15   <211> 132
<212> DNA
<213> Human

20   <220>
<221> misc_feature
<222> (121)..(121)
<223> n is a, c, g, or t

25   <400> 101
gttacctaat gttttactct cattttcttt ttctttattt ttcatttgta aaataggaac   60

attaattgta ctactttcaa aagaattaat tgaagaaaga gagatacagg gtatctaggc   120

30   ngaggaagac cc   132

<210> 102
<211> 246
35   <212> DNA
<213> Human

<400> 102
ggggggctttta gttataactg ggctaagcat aattgcgcta ccaattccat attatctcat   60
40
ggcacttaat tttataattg atatatataa taaaaaattc aatgcagata ttgatataat   120

aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttggggtt   180

45   aacctataac ttattaagta aagtgccaga atggttcttt gacagtatta aaattaaaga   240

268

aaacag   246

<210> 103
5   <211> 18
<212> DNA
<213> Artificial Sequence

<220>
10   <223> forward primer of exon 1 of insulin gene used for quantitative
RT-PCR analysis

<220>
15   <221> primer_bind
<222> (1)..(18)

<400> 103
gccctctggg gacctgac   18
20

<210> 104
<211> 18
<212> DNA
25   <213> Artificial Sequence

<220>
<223> reverse primer of exons 1 and 2 of insulin gene used for
quantitative RT-PCR analysis
30

<220>
<221> primer_bind
<222> (1)..(18)
35
<400> 104
cccacctgca ggtcctct   18

40   <210> 105
<211> 24
<212> DNA
<213> Artificial Sequence

45   <220>
<223> forward primer of ßMyHC gene used for quantitative RT-PCR

269

analysis

<220>
5   <221> primer_bind
     <222> (1)..(24)

     <400> 105
     gctggaacgt agagactccc tgct   24
10

     <210> 106
     <211> 24
     <212> DNA
15   <213> Artificial Sequence

     <220>
     <223> reverse primer of ßMyHC gene used for quantitative RT-PCR
           analysis
20

     <220>
     <221> primer_bind
     <222> (1)..(24)
25
     <400> 106
     ggatccttcc agatcatcca cttg   24

30   <210> 107
     <211> 20
     <212> DNA
     <213> Artificial Sequence

35   <220>
     <223> forward primer of ANF used for quantitative RT-PCR analysis

     <220>
40   <221> primer_bind
     <222> (1)..(20)

     <400> 107
     ggatttcaag aatttgctgg   20
45

<210> 108
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> reverse primer of ANF used for quantitative RT-PCR analysis

<220>
<221> primer_bind
<222> (1)..(20)

<400> 108
gcagatcgat cagaggagtc   20

<210> 109
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> forward primer of APP used for quantitative RT-PCR analysis

<220>
<221> primer_bind
<222> (1)..(20)

<400> 109
ggatgcttca tgtgaacgtg   20

<210> 110
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> reverse primer of APP used for quantitative RT-PCR analysis

<220>
<221> primer_bind
<222> (1)..(19)

<400> 110
tcattcacac cagcacatg   19

5

<210> 111
<211> 21
<212> DNA
<213> Artificial Sequence

10

<220>
<223> forward primer of ZFP used for quantitative RT-PCR analysis

15   <220>
<221> primer_bind
<222> (1)..(21)

<400> 111
20   cacargagrc arggtcaacg a   21

<210> 112
<211> 22
25   <212> DNA
<213> Artificial Sequence

<220>
<223> reverse primer of ZFP used for quantitative RT-PCR analysis

30

<220>
<221> primer_bind
<222> (1)..(22)

35

<400> 112
ggattaaaat gaagcaccca ga   22